



IFWP

RAW SEQUENCE LISTING

DATE: 07/24/2006

PATENT APPLICATION: US/10/529,009A

TIME: 11:01:20

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\07242006\J529009A.raw

2 <110> APPLICANT: JURIDICAL FOUNDATION THE CHEMO-SERO-THERAPEUTIC RESEARCH INSTITUTE
 3 <120> TITLE OF INVENTION: Antibody against von Willebrand Factor cleaving protease and
 the assay

4 method using the antibody thereof

5 <130> FILE REFERENCE: PH-1893-PCT

7 <140> CURRENT APPLICATION NUMBER: US/10/529,009A

8 <141> CURRENT FILING DATE: 2005-03-24

10 <150> PRIOR APPLICATION NUMBER: JP 2002/279924

11 <151> PRIOR FILING DATE: 2002-09-25

13 <150> PRIOR APPLICATION NUMBER: JP 2002/377569

14 <151> PRIOR FILING DATE: 2002-12-26

16 <160> NUMBER OF SEQ ID NOS: 20

17 <210> SEQ ID NO: 1

18 <211> LENGTH: 1427

19 <212> TYPE: PRT

20 <213> ORGANISM: Homo sapiens

21 <400> SEQUENCE: 1

22	Met His Gln Arg His Pro Arg Ala Arg Cys Pro Pro Leu Cys Val	
23	1	5
24	Ala Gly Ile Leu Ala Cys Gly Phe Leu Leu Gly Cys Trp Gly Pro	10
25		20
26	Ser His Phe Gln Gln Ser Cys Leu Gln Ala Leu Glu Pro Gln Ala	25
27		30
28	Val Ser Ser Tyr Leu Ser Pro Gly Ala Pro Leu Lys Gly Arg Pro	35
29		40
30	Pro Ser Pro Gly Phe Gln Arg Gln Arg Gln Arg Gln Arg Arg Ala	45
31		50
32	Ala Gly Gly Ile Leu His Leu Glu Leu Leu Val Ala Val Gly Pro	55
33		60
34	Asp Val Phe Gln Ala His Gln Glu Asp Thr Glu Arg Tyr Val Leu	65
35		70
36	Thr Asn Leu Asn Ile Gly Ala Glu Leu Leu Arg Asp Pro Ser Leu	75
37		80
38	Gly Ala Gln Phe Arg Val His Leu Val Lys Met Val Ile Leu Thr	85
39		90
40	Glu Pro Glu Gly Ala Pro Asn Ile Thr Ala Asn Leu Thr Ser Ser	95
41		100
42	Leu Leu Ser Val Cys Gly Trp Ser Gln Thr Ile Asn Pro Glu Asp	105
43		110
44	Asp Thr Asp Pro Gly His Ala Asp Leu Val Leu Tyr Ile Thr Arg	115
45		120
46	Phe Asp Leu Glu Leu Pro Asp Gly Asn Arg Gln Val Arg Gly Val	125
47		130
48	Thr Gln Leu Gly Gly Ala Cys Ser Pro Thr Trp Ser Cys Leu Ile	135

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49	200	205	210
50	Thr Glu Asp Thr Gly Phe Asp Leu Gly Val Thr Ile Ala His Glu		225
51	215	220	
52	Ile Gly His Ser Phe Gly Leu Glu His Asp Gly Ala Pro Gly Ser		240
53	230	235	
54	Gly Cys Gly Pro Ser Gly His Val Met Ala Ser Asp Gly Ala Ala		255
55	245	250	
56	Pro Arg Ala Gly Leu Ala Trp Ser Pro Cys Ser Arg Arg Gln Leu		270
57	260	265	
58	Leu Ser Leu Leu Ser Ala Gly Arg Ala Arg Cys Val Trp Asp Pro		285
59	275	280	
60	Pro Arg Pro Gln Pro Gly Ser Ala Gly His Pro Pro Asp Ala Gln		300
61	290	295	
62	Pro Gly Leu Tyr Tyr Ser Ala Asn Glu Gln Cys Arg Val Ala Phe		315
63	305	310	
64	Gly Pro Lys Ala Val Ala Cys Thr Phe Ala Arg Glu His Leu Asp		330
65	320	325	
66	Met Cys Gln Ala Leu Ser Cys His Thr Asp Pro Leu Asp Gln Ser		345
67	335	340	
68	Ser Cys Ser Arg Leu Leu Val Pro Leu Leu Asp Gly Thr Glu Cys		360
69	350	355	
70	Gly Val Glu Lys Trp Cys Ser Lys Gly Arg Cys Arg Ser Leu Val		375
71	365	370	
72	Glu Leu Thr Pro Ile Ala Ala Val His Gly Arg Trp Ser Ser Trp		390
73	380	385	
74	Gly Pro Arg Ser Pro Cys Ser Arg Ser Cys Gly Gly Gly Val Val		405
75	395	400	
76	Thr Arg Arg Arg Gln Cys Asn Asn Pro Arg Pro Ala Phe Gly Gly		420
77	410	415	
78	Arg Ala Cys Val Gly Ala Asp Leu Gln Ala Glu Met Cys Asn Thr		435
79	425	430	
80	Gln Ala Cys Glu Lys Thr Gln Leu Glu Phe Met Ser Gln Gln Cys		450
81	440	445	
82	Ala Arg Thr Asp Gly Gln Pro Leu Arg Ser Ser Pro Gly Gly Ala		465
83	455	460	
84	Ser Phe Tyr His Trp Gly Ala Ala Val Pro His Ser Gln Gly Asp		480
85	470	475	
86	Ala Leu Cys Arg His Met Cys Arg Ala Ile Gly Glu Ser Phe Ile		495
87	485	490	
88	Met Lys Arg Gly Asp Ser Phe Leu Asp Gly Thr Arg Cys Met Pro		510
89	500	505	
90	Ser Gly Pro Arg Glu Asp Gly Thr Leu Ser Leu Cys Val Ser Gly		525
91	515	520	
92	Ser Cys Arg Thr Phe Gly Cys Asp Gly Arg Met Asp Ser Gln Gln		540
93	530	535	
94	Val Trp Asp Arg Cys Gln Val Cys Gly Gly Asp Asn Ser Thr Cys		555
95	545	550	
96	Ser Pro Arg Lys Gly Ser Phe Thr Ala Gly Arg Ala Arg Glu Tyr		570
97	560	565	

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98 Val Thr Phe Leu Thr Val Thr Pro Asn Leu Thr Ser Val Tyr Ile
99                               575                               580                               585
100 Ala Asn His Arg Pro Leu Phe Thr His Leu Ala Val Arg Ile Gly
101                               590                               595                               600
102 Gly Arg Tyr Val Val Ala Gly Lys Met Ser Ile Ser Pro Asn Thr
103                               605                               610                               615
104 Thr Tyr Pro Ser Leu Leu Glu Asp Gly Arg Val Glu Tyr Arg Val
105                               620                               625                               630
106 Ala Leu Thr Glu Asp Arg Leu Pro Arg Leu Glu Glu Ile Arg Ile
107                               635                               640                               645
108 Trp Gly Pro Leu Gln Glu Asp Ala Asp Ile Gln Val Tyr Arg Arg
109                               650                               655                               660
110 Tyr Gly Glu Glu Tyr Gly Asn Leu Thr Arg Pro Asp Ile Thr Phe
111                               665                               670                               675
112 Thr Tyr Phe Gln Pro Lys Pro Arg Gln Ala Trp Val Trp Ala Ala
113                               680                               685                               690
114 Val Arg Gly Pro Cys Ser Val Ser Cys Gly Ala Gly Leu Arg Trp
115                               695                               700                               705
116 Val Asn Tyr Ser Cys Leu Asp Gln Ala Arg Lys Glu Leu Val Glu
117                               710                               715                               720
118 Thr Val Gln Cys Gln Gly Ser Gln Gln Pro Pro Ala Trp Pro Glu
119                               725                               730                               735
120 Ala Cys Val Leu Glu Pro Cys Pro Pro Tyr Trp Ala Val Gly Asp
121                               740                               745                               750
122 Phe Gly Pro Cys Ser Ala Ser Cys Gly Gly Gly Leu Arg Glu Arg
123                               755                               760                               765
124 Pro Val Arg Cys Val Glu Ala Gln Gly Ser Leu Leu Lys Thr Leu
125                               770                               775                               780
126 Pro Pro Ala Arg Cys Arg Ala Gly Ala Gln Gln Pro Ala Val Ala
127                               785                               790                               795
128 Leu Glu Thr Cys Asn Pro Gln Pro Cys Pro Ala Arg Trp Glu Val
129                               800                               805                               810
130 Ser Glu Pro Ser Ser Cys Thr Ser Ala Gly Gly Ala Gly Leu Ala
131                               815                               820                               825
132 Leu Glu Asn Glu Thr Cys Val Pro Gly Ala Asp Gly Leu Glu Ala
133                               830                               835                               840
134 Pro Val Thr Glu Gly Pro Gly Ser Val Asp Glu Lys Leu Pro Ala
135                               845                               850                               855
136 Pro Glu Pro Cys Val Gly Met Ser Cys Pro Pro Gly Trp Gly His
137                               860                               865                               870
138 Leu Asp Ala Thr Ser Ala Gly Glu Lys Ala Pro Ser Pro Trp Gly
139                               875                               880                               885
140 Ser Ile Arg Thr Gly Ala Gln Ala Ala His Val Trp Thr Pro Ala
141                               890                               895                               900
142 Ala Gly Ser Cys Ser Val Ser Cys Gly Arg Gly Leu Met Glu Leu
143                               905                               910                               915
144 Arg Phe Leu Cys Met Asp Ser Ala Leu Arg Val Pro Val Gln Glu
145                               920                               925                               930
146 Glu Leu Cys Gly Leu Ala Ser Lys Pro Gly Ser Arg Arg Glu Val

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147	935	940	945
148 Cys Gln Ala Val	Pro Cys Pro Ala Arg	Trp Gln Tyr Lys Leu	Ala
149	950	955	960
150 Ala Cys Ser Val	Ser Cys Gly Arg Gly	Val Val Arg Arg Ile	Leu
151	965	970	975
152 Tyr Cys Ala Arg	Ala His Gly Glu Asp	Asp Gly Glu Glu Ile	Leu
153	980	985	990
154 Leu Asp Thr Gln	Cys Gln Gly Leu Pro	Arg Pro Glu Pro Gln	Glu
155	995	1000	1005
156 Ala Cys Ser Leu	Glu Pro Cys Pro Pro	Arg Trp Lys Val Met	Ser
157	1010	1015	1020
158 Leu Gly Pro Cys	Ser Ala Ser Cys Gly	Leu Gly Thr Ala Arg	Arg
159	1025	1030	1035
160 Ser Val Ala Cys	Val Gln Leu Asp Gln	Gly Gln Asp Val Glu	Val
161	1040	1045	1050
162 Asp Glu Ala Ala	Cys Ala Ala Leu Val	Arg Pro Glu Ala Ser	Val
163	1055	1060	1065
164 Pro Cys Leu Ile	Ala Asp Cys Thr Tyr	Arg Trp His Val Gly	Thr
165	1070	1075	1080
166 Trp Met Glu Cys	Ser Val Ser Cys Gly	Asp Gly Ile Gln Arg	Arg
167	1085	1090	1095
168 Arg Asp Thr Cys	Leu Gly Pro Gln Ala	Gln Ala Pro Val Pro	Ala
169	1100	1105	1110
170 Asp Phe Cys Gln	His Leu Pro Lys Pro	Val Thr Val Arg Gly	Cys
171	1115	1120	1125
172 Trp Ala Gly Pro	Cys Val Gly Gln Gly	Thr Pro Ser Leu Val	Pro
173	1130	1135	1140
174 His Glu Glu Ala	Ala Ala Pro Gly Arg	Thr Thr Ala Thr Pro	Ala
175	1145	1150	1155
176 Gly Ala Ser Leu	Glu Trp Ser Gln Ala	Arg Gly Leu Leu Phe	Ser
177	1160	1165	1170
178 Pro Ala Pro Gln	Pro Arg Arg Leu Leu	Pro Gly Pro Gln Glu	Asn
179	1175	1180	1185
180 Ser Val Gln Ser	Ser Ala Cys Gly Arg	Gln His Leu Glu Pro	Thr
181	1190	1195	1200
182 Gly Thr Ile Asp	Met Arg Gly Pro Gly	Gln Ala Asp Cys Ala	Val
183	1205	1210	1215
184 Ala Ile Gly Arg	Pro Leu Gly Glu Val	Val Thr Leu Arg Val	Leu
185	1220	1225	1230
186 Glu Ser Ser Leu	Asn Cys Ser Ala Gly	Asp Met Leu Leu Leu	Trp
187	1235	1240	1245
188 Gly Arg Leu Thr	Trp Arg Lys Met Cys	Arg Lys Leu Leu Asp	Met
189	1250	1255	1260
190 Thr Phe Ser Ser	Lys Thr Asn Thr Leu	Val Val Arg Gln Arg	Cys
191	1265	1270	1275
192 Gly Arg Pro Gly	Gly Gly Val Leu Leu	Arg Tyr Gly Ser Gln	Leu
193	1280	1285	1290
194 Ala Pro Glu Thr	Phe Tyr Arg Glu Cys	Asp Met Gln Leu Phe	Gly
195	1295	1300	1305

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```

196 Pro Trp Gly Glu Ile Val Ser Pro Ser Leu Ser Pro Ala Thr Ser
197                               1310           1315           1320
198 Asn Ala Gly Gly Cys Arg Leu Phe Ile Asn Val Ala Pro His Ala
199                               1325           1330           1335
200 Arg Ile Ala Ile His Ala Leu Ala Thr Asn Met Gly Ala Gly Thr
201                               1340           1345           1350
202 Glu Gly Ala Asn Ala Ser Tyr Ile Leu Ile Arg Asp Thr His Ser
203                               1355           1360           1365
204 Leu Arg Thr Thr Ala Phe His Gly Gln Gln Val Leu Tyr Trp Glu
205                               1370           1375           1380
206 Ser Glu Ser Ser Gln Ala Glu Met Glu Phe Ser Glu Gly Phe Leu
207                               1385           1390           1395
208 Lys Ala Gln Ala Ser Leu Arg Gly Gln Tyr Trp Thr Leu Gln Ser
209                               1400           1405           1410
210 Trp Val Pro Glu Met Gln Asp Pro Gln Ser Trp Lys Gly Lys Glu
211                               1415           1420           1425

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212 Gly Thr

214 <210> SEQ ID NO: 2

215 <211> LENGTH: 22

216 <212> TYPE: PRT

217 <213> ORGANISM: Homo sapiens

218 <400> SEQUENCE: 2

219 Phe Ser Pro Ala Pro Gln Pro Arg Arg Leu Leu Pro Gly Pro Gln

220 1

5

10

15

221 Glu Asn Ser Val Gln Ser Ser

222

20

224 <210> SEQ ID NO: 3

225 <211> LENGTH: 18

226 <212> TYPE: PRT

227 <213> ORGANISM: Homo sapiens

228 <400> SEQUENCE: 3

229 Asp Arg Leu Pro Arg Leu Glu Glu Ile Arg Ile Trp Gly Pro Leu

230 1

5

10

15

231 Gln Glu Asp

233 <210> SEQ ID NO: 4

234 <211> LENGTH: 30

235 <212> TYPE: DNA

236 <213> ORGANISM: Homo sapiens

237 <400> SEQUENCE: 4

238 ctggagcacg acggcgcgcc cggcagcggc

30

240 <210> SEQ ID NO: 5

241 <211> LENGTH: 30

242 <212> TYPE: DNA

243 <213> ORGANISM: Homo sapiens

244 <400> SEQUENCE: 5

245 atgtgcaaca ctcaggcctg cgagaagacc

30

247 <210> SEQ ID NO: 6

248 <211> LENGTH: 30

249 <212> TYPE: DNA

VERIFICATION SUMMARY

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